

IN THE CLAIMS:

The following list of claims replaces any prior listing of claims:

1. (currently amended) A muffler comprising:

a casing comprising a partition having an aperture defined therein, wherein the partition is coupled to the casing and defines a gas inlet chamber communicating with a gas inlet and a gas outlet chamber communicating with a gas outlet;

a pressure sensor member; and

a throttling device is located between the inlet and outlet of the muffler and controlled by pressure of the gas flow, wherein a cross sectional area of the gas flow of the throttling device reduces when pressure of the gas flow increases, the throttling device further comprising an open and close member having a connection lever coupled thereto, wherein the open and close member is coupled to the pressure sensor member using the connection lever and is substantially within the aperture of the partition.

2. (previously presented) The muffler according to claim 1, wherein the throttling device controlled by pressure of the gas flow is a pressure reducing valves structure.

3. (previously presented) The muffler according to claim 2, wherein the pressure reducing valves structure comprises an adjusting device and a throttling member.

4. (previously presented) The muffler according to claim 3, wherein the adjusting device comprises a manual adjusting device, a spring, the pressure sensor member and a connection lever which are connected in series.

5. (previously presented) The muffler according to claim 1, wherein the throttling device comprises an open and close member and a fixture.

6. (previously presented) The muffler according to claim 1, wherein the throttling device comprises an open and close member and a fixture; and wherein the structure of the open and close member is characterized in that a cross sectional area of its first surface subjecting to gas pressure from the gas inlet is larger than a cross sectional area of its second surface that is positioned opposite to the first surface and positioned within the gas outlet chamber.

7. (previously presented) The muffler according to claim 4, wherein the throttling member comprises an open and close member and a fixture; and wherein the structure of the open and close member is characterized in that a cross sectional area of its first surface subjecting to gas pressure from the gas inlet is larger than a cross sectional area of its second surface that is positioned opposite to the first surface and positioned within the gas outlet chamber.

8. (previously presented) The muffler according to claim 4, wherein the pressure sensor member is a diaphragm, a piston or a bellows.

9. (previously presented) The muffler according to claim 7, wherein the connection lever of the adjusting device is connected with the second surface of the open and close member.

10. (previously presented) The muffler according to claim 9, wherein the pressure sensor member is a diaphragm, a piston or a bellows.

11. (previously presented) The muffler according to claim 10, wherein a spring chamber is connected with the gas outlet chamber; wherein the spring and a part of the manual adjusting device are located within the spring chamber; and wherein the spring chamber comprises a balancing hole communicating with the atmosphere.

12. (previously presented) The muffler according to claim 7, wherein gas flow discharged from the gas outlet is continuous, stable and without pulsation.

13. (previously presented) The muffler according to claim 11, wherein gas flow discharged from the gas outlet is continuous, stable and without pulsation.

14. (previously presented) The muffler according to claim 1, wherein the pressure sensor member is coupled to the gas outlet chamber and the throttling device being controlled by the pressure of the muffled gas flow.

15. (previously presented) The muffler according to claim 1, wherein the pressure sensor member is a diaphragm, a piston or a bellows and coupled to the casing.

16. (previously presented) The muffler according to claim 14, wherein the pressure sensor member is a diaphragm, a piston or a bellows and coupled to the casing.

17. (currently amended) The muffler according to claim 1, wherein the muffler comprises a spring which is connected with the combination of the pressure sensor and the throttling device.

18. (previously presented) The muffler according to claim 14, wherein the muffler comprises a spring which is connected with the combination of the pressure sensor member and the throttling device.

19. (previously presented) The muffler according to claim 15, wherein the muffler comprises a spring which is connected with the combination of the pressure sensor member and the throttling device.

20. (previously presented) The muffler according to claim 16, wherein the muffler comprises a spring which is connected with the combination of the pressure sensor member and the throttling device.

21. (previously presented) The muffler according to claim 17, wherein the spring is connected with the pressure sensor.

22. (previously presented) The muffler according to claim 17, wherein the other end of the spring is connected with the casing.

23. (previously presented) The muffler according to claim 21, wherein the other end of the spring is connected with the casing.

24. (previously presented) The muffler according to claim 22, wherein a manual adjusting device connects other end of the spring and the casing.

25. (previously presented) The muffler according to claim 22, wherein the part of casing which is connecting the spring form a spring chamber.

26. (previously presented) The muffler according to claim 24, wherein the part of casing which is connecting the spring form a spring chamber.

27. (previously presented) The muffler according to claim 25, wherein the spring chamber comprises a balancing hole communicating with the atmosphere.

28-29. (cancelled).

30. (currently amended) The muffler according to ~~claim 28~~, claim 1, further comprising a fixture coupled to the partition and positioned adjacent the aperture.